ASSIGNMENT #2

PROG2110 – Relational Databases

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Assumptions

Vehicle Identification Number (VIN)
- The VIN number for a vehicle is a unique ID number that can be used to uniquely identify a vehicle on the order form and in the dealership vehicle list.

- The order form has the VIN numbers listed to show what vehicles are included in the order.

Dealership
- The Dealership keeps track of Customer_ID's as foreign keys to know what customers are working with the dealerships. Customers can use multiple dealerships.

- The Dealership keeps track of Employee_ID's as foreign keys to know what employees work at the dealership. Employees can work at once dealership.

- The Dealership keeps track of vehicle VIN_numbers to keep track of vehicle stock.

- Wally has 3 dealerships and 56 employees. This does not need to be reflected in the diagrams.
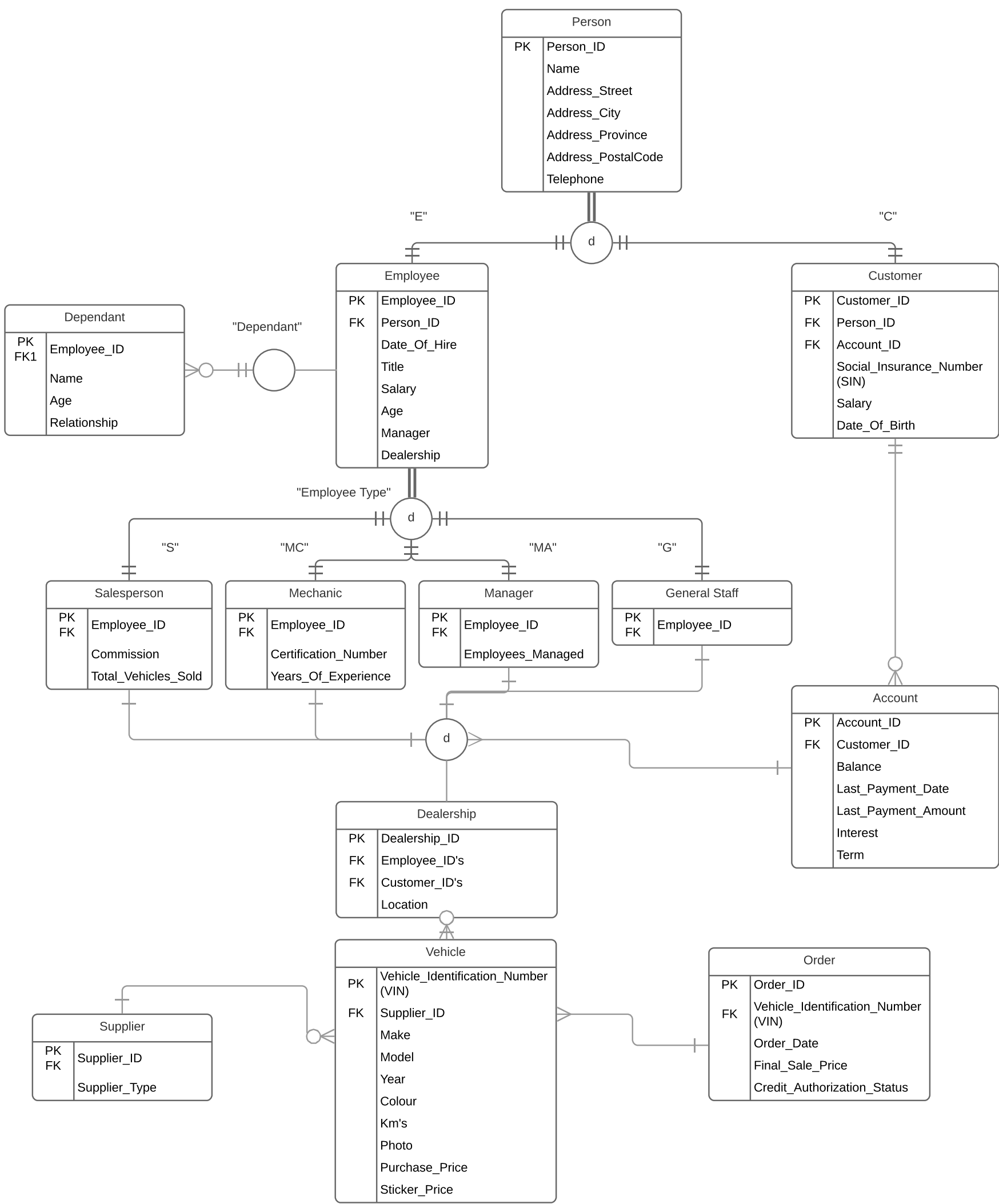
Vehicle
- The sticker price is always 35% more than the purchase price of the vehicle from the supplier. The final sales price can be different than the sticker price. This does not need to be reflected in the diagrams.

Employee Dependants
- The employee can have 0 or more dependants. If two employees are married and have the same dependants then they are shared.

Relational Databases - PROG2110 - Assignment #2: Set of Relations in 3rd normal form
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Person

Person_ID	Name	Address_Street	Address_City	Address_Province	Address_PostalCode	Telephone

Employee

Person_ID	Employee_ID	Date_Of_Hire	Title	Salary	Age	Manager	Dealership

Dependant

Employee_ID	Name	Age	Relationship

Salesperson

Employee_ID	Commission	Total_Vehicles_Sold

Mechanic

Employee_ID	Certification_Number	Years_Of_Experience

Manager

Employee_ID	Employees_Managed

General Staff

Employee_ID

Customer

Person_ID	Customer_ID	Account_ID	Social_Insurance_Number(SIN)	Salary	Date_Of_Birth

Account

Customer_ID	Account_ID	Balance	Last_Payment_Date	Last_Payment_Amount	Interest	Term

Dealership

Dealership_ID	Location	Employee_ID	Customer_ID	VIN_Numbers

Vehicle

Vehicle_Identification_Number(VIN)	Supplier_ID	Model	Year	Colour	Km's	Photo	Purchas_Price	Sticker_Price	Make

Supplier

Supplier_ID	Supplier_Type

Order

Order_ID	VIN_Numbers	Order_Date	Final_Sales_Price	Credit_Authorization_Status